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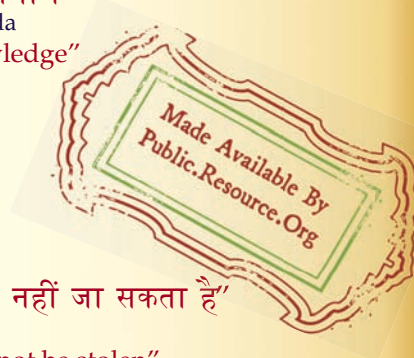
IS 13940 (1994): Cardiovascular Surgery Instruments - Clamps, Bulldog, DeBakey, Ring Handle - Shape and Dimensions [MHD 6: Thoracic and Cardiovascular Surgery Instruments]



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“Knowledge is such a treasure which cannot be stolen”

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भारतीय मानक

हृदय वाहिका शल्य क्रिया उपकरण — छल्लेदार
हैंडल युक्त डीबेके नमूने के बुलडॉग क्लैंप —
आकृति एवं आयाम

Indian Standard

CARDIOVASCULAR SURGERY
INSTRUMENTS — CLAMPS, BULLDOG,
DeBAKEY, RING HANDLE — SHAPE AND
DIMENSIONS

UDC 615.472.2 : 616.4-089

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BUREAU OF INDIAN STANDARDS
MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG
NEW DELHI 110002

FOREWORD

This Indian Standard was adopted by the Bureau of Indian Standards, after the draft finalized by the Thoracic and Cardiovascular Surgery Instruments Sectional Committee had been approved by the Medical Equipment and Hospital Planning Division Council.

This standard is one of the series of vertical Indian Standards on surgical instruments, covering only the shape and dimensions of DeBakey type, ring handle, bulldog clamps used in cardiovascular surgery. The general requirements and other specification aspects for these clamps are covered in IS 3642 (Part 1) : 1990 'Specification for surgical instruments : Part 1 Non-cutting, articulated type instruments (*second revision*)', which is intended to serve as a horizontal standard for these clamps.

For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test, shall be rounded off in accordance with IS 2 : 1960 'Rules for rounding off numerical values (*revised*)'. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

Indian Standard

CARDIOVASCULAR SURGERY INSTRUMENTS — CLAMPS, BULLDOG, DeBAKEY, RING HANDLE — SHAPE AND DIMENSIONS

1 SCOPE

1.1 This Indian Standard specifies the shape and dimensions for DeBakey's bulldog clamps with ring handles used in cardiovascular surgery.

2 REFERENCE

2.1 IS 3642 (Part 1) : 1990 'Surgical Instruments-Non-cutting, articulated type — Specification (*second revision*)' forms a necessary adjunct to this standard.

3 SHAPE AND DIMENSIONS

3.1 The shape and dimensions of the ring handle bulldog clamps shall be as shown in Fig. 1.

3.2 Jaws

The clamps shall be provided with straight, curved or angled (45°, 90°) jaws as per the requirement of the purchaser. Fig. 1 shows a typical ring handle clamp having straight jaws.

3.3 Joint

Joint of the instrument shall be box type

conforming to **13.2.2** of Section 3 of IS 3642 (Part 1) : 1990.

3.4 Serrations

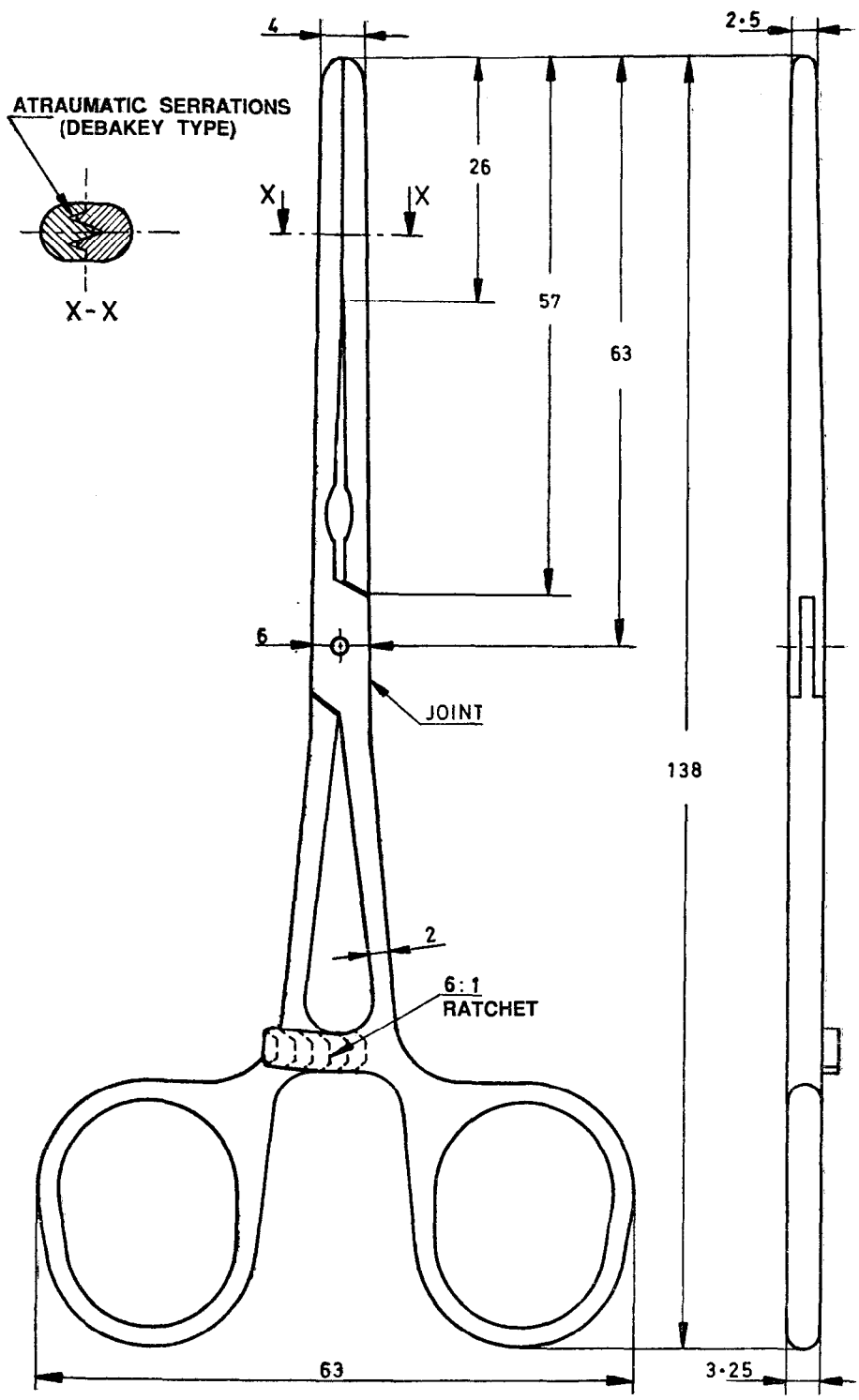
3.4.1 The serrations shall be atraugrip (non-traumatic) with DeBakey type toothing as shown in Fig. 1 and shall conform to the relevant requirements given in Section 2 of 3642 (Part 1) : 1990.

3.5 Ratchet

The ratchet teeth shall be of 1 in 6 combination (other combinations also admissible as per requirement of the purchaser) and shall satisfy the requirements of Section 4 of IS 3642 (Part 1) : 1990. The load required to perform the load test in accordance with **14.2** of IS 3642 (Part 1) : 1990 shall be 5N for the first step, 7.5N for the second step, 10N for the third step and so on.

3.6 Finger Loop

The finger loops shall conform to Size No. 2 of Section 6 of IS 3642 (Part 1) : 1990.



All dimensions in millimetres.

FIG. 1 BULLDOG CLAMP, DeBAKEY'S RING HANDLE TYPE

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BUREAU OF INDIAN STANDARDS

Headquarters:

Manak Bhavan, 9 Bahadur Shah Zafar Marg, New Delhi 110002
Telephones : 331 01 31, 331 13 75

Telegrams : Manaksanstha
(Common to all Offices)

Regional Offices:

Telephone

Central : Manak Bhavan, 9 Bahadur Shah Zafar Marg
NEW DELHI 110002

{ 331 01 31
{ 331 13 75

Eastern : 1/14 C. I. T. Scheme VII M. V. I. P. Road, Maniktola
CALCUTTA 700054

{ 37 84 99, 37 85 61
{ 37 86 26, 37 86 62

Northern : SCO 445-446, Sector 35-C, CHANDIGARH 160036

{ 53 38 43, 53 16 40
{ 53 23 84

Southern : C. I. T. Campus, IV Cross Road, MADRAS 600113

{ 235 02 16, 235 04 42
{ 235 15 19, 235 23 15

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